CLAIMS

1. A lens for use with a light-emitting device comprising:

a connector body that couples or attaches to a light-emitting device so as to capture at least some of the light emitted by the light source of the light-emitting

device;

a light guide extending from the connector body; and

a ball or substantially rounded shape at an end of the light guide distal to the

connector body.

2. A lens as recited in claim 1, wherein said light-emitting device includes a

light source comprising at least one LED or LED array.

3. A lens as recited in claim 1, wherein said light emitting device includes a

light source comprising at least one of a halogen light, a plasma arc light, or a laser diode.

4. A lens as recited in claim 1, wherein said connector body is configured so as

to releasably attach the lens to a light-emitting device.

5. A lens as recited in claim 4, wherein said connector body is configured so as

to releasably attach the lens to a light-emitting device by a snap fit, a friction fit, a threaded

coupling, or a bayonet coupling.

6. A lens as recited in claim 1, wherein said connector body is configured so

that the lens is integrally attached to a light-emitting device.

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- 7. A lens as recited in claim 1, wherein said light guide is substantially cylindrical.
- 8. A lens as recited in claim 7, wherein the ball has a diameter substantially equal to that of the cylindrical light guide.
 - 9. A lens as recited in claim 1, wherein said light guide is tapered.
- 10. A lens as recited in claim 1, wherein the ball has a diameter ranging from about 1 mm to about 6 mm.
- 11. A lens as recited in claim 1, wherein the ball has a diameter ranging from about 2 mm to about 4 mm.
- 12. A lens as recited in claim 1, wherein said connector body has a hollow interior.
- 13. A lens as recited in claim 12, further comprising a focusing lens at least partially disposed within said hollow interior of said lens body.
- 14. A lens as recited in claim 13, wherein said focusing lens comprises a curved surface through which light enters and a light-emitting tip through which light energy exits into said elongate light guide.

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15. A lens as recited in claim 13, wherein said focusing lens, said elongate light

guide, and said ball are formed as one integral piece.

16. A lens as recited in claim 13, wherein said focusing lens, said elongate light

guide, and said ball are formed from one or more of acrylic, polyacrylic, polycarbonate,

silicone, aluminum dioxide, sapphire, quartz, glass, or other transparent or translucent

material.

17. A lens as recited in claim 13, wherein said focusing lens, said elongate light

guide, and said ball are formed from one or more of urethane, polyurethane, silicone, or

polyethylene.

18. A light curing system for use in filling a dental preparation, the light curing

system comprising:

a light-emitting device that emits a footprint of light energy; and

a lens adapted for use with the light-emitting device, the lens comprising:

a connector body that couples or attaches to a light-emitting device so

as to capture at least some of the light emitted by the light source of the light-

emitting device;

a light guide extending from the connector body; and

a ball at an end of the light guide distal to the connector body.

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19. A light curing system as recited in claim 18, wherein said light-emitting device includes a light source that comprises at least one of a halogen bulb, an incandescent bulb, a fluorescent bulb, a plasma arc light, or a laser diode.

20. A light curing system as recited in claim 18, wherein said light-emitting device includes a light source comprising at least one LED or LED array.

21. A light curing system as recited in claim 18, wherein said light-emitting device comprises a fiber optic light guide configured to capture and transmit light generated by a light source of said light-emitting device.

22. A method for curing a light curable composition within a dental preparation, comprising:

providing a lens as recited in claim 1;

applying a layer of a light curable composition to a dental preparation; and

using said ball to hold a matrix band against an adjacent tooth prior to and/or while incrementally curing said composition.